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ABSTRACT

This curriculum guide was developed as part of the Worker Education Program for workers in the garment industry. The program was jointly developed by the workers, their employer, their union, and Northeastern Illinois University. It contains the materials required to teach a course to help Spanish-speaking individuals pass the General Educational Development (GED) examination in Spanish. Included in the guide are the following: discussion of the worker-centered, holistic philosophy underpinning the GED preparation course; explanation of the GED examination's format and explanation of techniques for planning lessons for the test preparation course (problem posing, the language experience approach, the cluster method, and use of realia and photographs); 12 ideas for learner-centered activities; tips to help teachers prepare learners for the GED examination; overall goal of the GED preparation course and 60 objectives specifically related to mathematics, reading and writing, social studies, and science; and a lesson plan correlating each of the 60 objectives with learning activities and instructional materials. (Contains a bibliography that lists 4 general publications on literacy education and 52 publications on preparing for the Spanish version of the GED examination.) (MN)

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CURRICULUM GUIDE FOR GENERAL EDUCATION DEVELOPMENT OR HIGH SCHOOL EQUIVALENCY EXAMINATION IN SPANISH

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Worker Education Program
of
Northeastern Illinois University's.
Chicago Teachers' Center

in partnership with:
Union of Needletrades, Industrial &Textile Employees

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Shobha Sharma

Introduction

The nature of work is changing rapidly in the United States. In the nineteenth century, factory workers were considered literate if they could just write their names. Today, the average worker needs to upgrade skills in order to compete in the global market.

Improving the workers' basic skills would contribute to an enhanced workforce. A more educated workforce would have positive effects on the position of the U.S. in the global market and on increased profit margins for individual businesses.

The Worker Education Program sponsored by the Chicago Teachers' Center of Northeastern Illinois University and the Union of Needletrades, Industrial and Textile Employees (UNITE) has been funded by the U.S. Department of Education National Workplace Literacy Program to conduct classes for workers in basic skills, English as a Second Language, Spanish Literacy, GED,workplace courses and computer courses for the workplace. The Worker Education Program (WEP) is one of forty six programs funded in the U.S.

The program serves many limited English proficient adult immigrants mainly from Mexico and other Latin American countries. Some of these immigrants have had more than six years of schooling and are ready to take the High School Equivalency or General Education Development (GED) exam which is offered in English and in Spanish. In order to assist these workers prepare to take this exam and give them the opportunity to be promoted and cope with the changing demands of the workplace, WEP conducts Spanish GED classes . Although a lot of these students are simultaneously enrolled in English classes, the possibility of also taking and passing the GED exam in Spanish gives the students the confidence to first be successful in their own native language and then transfer these skills to improve their English communication.

Theory and Philosophy

The Worker Education Program uses a 'worker centered' and 'holistic' philosophy. " Worker centered" means that the learners play an active role in their own learning; their lives and their experiences are incorporated in the lesson planning to illustrate concepts and teachers serve as problem posers, not as problem solvers. This participatory approach gives the learners an active part in their education, sharpens their decision making skills, builds self-confidence and results in better participation in the workplace.

The 'holistic' approach means that all four language skills (reading ,writing, listening and speaking) are taught in the classroom. Even though the GED exam does not have an oral component, discussions in classes help in critical thinking skills and solving comprehension questions and learning all 4 skills helps in developing a well rounded individual who functions better in the workplace and in society.

Methodology

The GED exam involves an essay writing sample, comprehension exercises in writing skills, science, literature and the arts, social studies and mathematics.

The GED class is usually comprised of learners at different learning levels. There will be some learners in the GED class who wish to learn the basic skills and might have to plan long term to take the GED exam. On the other hand, there will be some learners who could be prepared to take the GED exam in, 6 months to a year. The instructor has to consider the needs of both groups in lesson planning . The techniques that are outlined in the following pages includes both groups of learners.

The following techniques can be used in the lesson planning for the GED classes; although an overall goal is to prepare in the 5 areas mentioned, this goal has been split up into 60 workable objectives which follow the foregoing methodology.

1. **Problem Posing** (Freire, Auerbach & Wallerstein)

Problem posing is useful for developing critical thinking skills. It begins by listening to issues generated by the learners and can be extended to include a photograph, graphs, drawing, written dialogue or a story. Teachers use a series of inductive questions which move the discussion of the situation from a concrete to a more analytical level. The students learn to name the problem, determine the cause and offer solutions. This method helps in evaluating , understanding the main idea of passages and develops skills for answering comprehension questions.

2. **The Language Experience Approach (LEA)** (Nessel, Dixon)

This method incorporates the four major language arts (reading, listening, speaking and writing) to assist students learn language in relation to their needs, interests and goals. This method is especially useful in easing students to start writing paragraphs on issues they are familiar with and finally move into the essay format on any topic which is an essential part of the GED exam.

The process involves asking students to first talk about a topic they are interested in or which makes them feel comfortable; this could be done individually or as a shared experience. The words are written down by the instructor and are read back as a story; as each student reads the written words they are also listening to the language they created. The students may then copy the passage, thus completing the 4 language activities. Spelling and vocabulary building can be incorporated by doing dictation and cloze exercises. Topics can be generated using pictures, newspaper articles and general information questions asked by the students as well.

LEA can also be utilized to discuss issues and find parallels when studying literature and the arts. Poetry and literature which are often abstract for students can be made truer to life by comparing with students' experiences and stories. Learners are able to see that their experiences are also shared by poets and writers who are able to articulate their own ideas so well.

3. Cluster Method

The cluster method is used in process writing. Learners and the teacher or facilitator together brainstorm ideas about a topic and the students build the story from the cluster of words provided. This process requires several drafts. This slow repeated writing helps the learner see a positive change in his/her writing skills and helps the learner overcome the fear of staring at a blank page struggling for words to write.

4. Realia and Photographs

The use of realia and photographs aid learners in critical thinking skills development and in writing. The objects could be used as a jumping off point for discussion of topics, problem solving and building vocabulary words to write an essay.

Pictures and visual aids also help in understanding mathematical problems involving fractions, 3-dimensional objects and visualizing scientific data about physical sciences and biology.

IDEAS FOR LEARNER-CENTERED ACTIVITIES

1. **50 Questions:** This activity puts the learning experience in the hands of the students. The process is as follows:

-learners choose from the topics that they have to cover for the GED exam
- the class brainstorms 50 questions on the topic, which are written on the board
-the learners decide after discussion which questions are important and need to be answered
- the list of questions would be used as a curriculum guide for that particular topic.

This process helps the students in developing critical thinking skills and collecting thoughts for writing.

2. **Dialogue Journals:**

Learners should have a notebook solely to record their thoughts on any subject that interests them, including their work, their hopes and dreams. At the same time, the GED students who are planning to take their exam within a year should work on topics that are presented in the practice test books.

3. **Time-Lines:** Ask a learner to write about important events in his/her life, by drawing a line on the board and writing the dates of events along the line in chronological order. The learner can talk about these events and the others can ask questions. This activity can be correlated while learning important dates in the history of U.S. and Latin America and also helps in developing critical thinking skills for the learner and in writing activities.

4. **Picture Stories:** Pictures of planets, rocks, bioligical specimens and others related to science can be used to discuss and practice unfamiliar vocabulary and terminology. They are also useful triggers for writing exercises.

5. **Scrambled/ Strip Story:** Stories written using the Language Experience Approach in class are separated into individual sentences or phrases. Each student is given a strip and the class as

a whole has to put the story in a logical order. This activity will help in developing comprehension and sequencing skills .

6. **Concentration:** Learners practice names of unfamiliar vocabulary in science by using cards with the words. All the cards are placed face down and learners try to match the name with the picture.

7. **Information gap:** Partners are given pictures of maps with with each partner having different information missing. To complete the task, the partners must ask questions of each other to fill in missing information in the map. This helps in learning map skills, asking for clarification and confirming understanding.

8. **Bingo:** This is another activity similar to concentration, but can be used in vocabulary practice in any area. Each student marks on his/her card the word the teacher calls out only after he/ she can define or explain what the word means. The first person to mark all items in a row or column wins. Everybody wins if everyone gives at least one correct meaning.

9. **Objects in a bag:** Here is another activity for vocabulary practice. Objects relevant to science/ math / social studies are kept in an opaque bag. The student picks an item and without revealing it to the other students has to describe it while others guess what it is, or the students can ask yes/no questions to try to guess.

10. **Recall:** A variation of the above game; students view a variety of objects relevant to the above topics, the items are then covered and they try to remember as many as possible within a time frame.

11. **Don't get lost:** Using maps of the countries and regions studied, pairs of students give directions to different cities. This is an excellent way to learn locations of different cities and countries in an interactive manner.

12. **Point- counterpoint:** Students form teams; one person from one team reads the passage and a person from the other team interprets and discusses the passage; questions are asked and the process is repeated with another passage. The teacher facilitates and helps if there is any difficulty expressed in the interpretation or answering of questions.

TIPS FOR TEACHERS

The GED exam involves some special techniques besides the 12 ideas explained above. the following 6 tips are outlined below to assist GED instructors help students prepare for the exam:

-spend 15 minutes on warm-up or wrap-up activities everyday dealing with detection of errors in sentences involving spelling,grammar, punctuation issues

-do vocabulary words review once a week or more often to build vocabulary

-connect different disciplines; plan a trip to Africa to include math word problem in distances and also review capitals and their countries in geography at the same time or have a discussion of the causes and effects of the Civil War and do a writing exercise to practice outlining and premise to conclusion skills

-teach 2 topics per day; do not spend the whole time each day on just one topic; if you start with mathematics do it for half the time then start science or social studies or writing skills and review that for the first half of the next class as well and start something new again for the second half

- give the students many opportunities to practice tests and get familiar with multiple choice questions and the vocabulary used; they need to time themselves and get used to answering questions with time restraints as in the final exam

-**above all, make sure the class is interactive;** too often in GED classes the instructor lets the students work on their own and hardly any time is spent on group/ pair activities; this is an essential part of any class and encourages discussions and stimulates critical thinking skills which are an essential part of the GED exam.

Overall Course Goal:

To provide learners the opportunity to demonstrate an ability in mathematics, reading & writing, literature & the arts, social studies and science in Spanish and to assist learners to prepare for the Spanish GED exam.

Objectives:

MATHEMATICS:

1. Demonstrate an ability to multiply by tens, hundreds, and thousands, using 2 or 3 digits and solve word problems using multiplication.

2. Divide by one digit, two digits, with remainders, horizontally, and solve problems using division.

3. Display an understanding of measures of length, weight, liquid and time by adding, subtracting, multiplying and dividing using Metric and English units of measurements.

4. Measure the area and perimeter of a circle, rectangle and a triangle and measure the volume of 3-dimensional objects.

5. Add, subtract, multiply and divide using fractions.

6. Add, subtract, multiply and divide using decimals.

7. Display an understanding of percentages.

8. Alter fractions to decimals, decimals to percentages and percentages to fractions.

9. Demonstrate an ability to solve word problems dealing with whole numbers and fractions, decimals and percentages.

10. Display an understanding of basic pre- algebra, including multiples, negative and positive numbers and substitution of numbers for variables.

11. Demonstrate an ability to perform basic addition, subtraction,

multiplication and division using variables.

12. Demonstrate an ability to simplify algebraic expressions and factorize polynomials.

13. Demonstrate an ability to solve basic algebraic equations.

14. Demonstrate an ability to solve basic geometric problems.

15. Demonstrate an ability to read and solve problems dealing with charts and graphs.

16. Display an understanding of ratio and proportion.

17. Demonstrate an ability to solve problems dealing with simple and compound interest.

18. Display an understanding of numbers not having base 10, like binary numbers.

READING AND WRITING:

19. Identify and illustrate use of punctuation, capital letters, prefix, suffix, homonym, antonym, synonym and appropriate usage of similar sounding letters and accents.

20. Display an understanding of sentence structure, phrase and paragraph.

21. Display an understanding of the different parts of speech including noun, pronoun, verb, adjective, adverb and preposition.

22. Discuss and identify different types of articles; narrative, descriptive and dialogue; name principal characteristics of a story,article in a newspaper, novel, letter and an essay.

23. Demonstrate an ability to read passages, comprehend main ideas and vocabulary words.

24. Display an ability to solve critical thinking exercises and get the main idea in a reading /comprehension passage utilizing skimming and scanning techniques.

25 Display an ability to detect errors in sentences involving punctuation, verb sequencing and spelling.

26. Identify meanings of words by context or by identifying the base word.

27. Demonstrate an ability to use a dictionary for meaning and pronunciation.

28. Distinguish fact from opinion and display an understanding of deduction and inference.

29. Identify figurative language like allegory, simile, hyperbole and irony in a passage.

30. Distinguish and interpret a poem, prose and drama passage.

31. Demonstrate an ability to discuss and evaluate a passage.

32. Display an understanding of writing from a premise to a conclusion and sequencing and elaborating ideas.

33. Demonstrate an ability to edit a written passage.

SOCIAL STUDIES:

34. Display an ability to read and draw maps, cardinal points,time zones, longtitude and latitude; also recognize different scales.

35. Differentiate between city, county, state, country, continent and display and understanding of population and density using a map.

36. Differentiate classes of information in maps with historical, political, climatalogical, economic or topographical data.

37. Display an understanding of basic concepts in geography including terms like 'lake', 'gulf', 'laguna', 'oasis' and 'valley'.

38. Demonstrate an ability to list and recognize countries and their capitals on a map; mainly the Americas.

39. Display an ability to interpret line, bar and pie graphs and to classify relevant information.

40. List important events in history starting with the great civilizations, including the fall of the Roman Empire, colonial powers and the industrial revolution.

41. Demonstrate a knowledge of important events and relevant vocabulary in American history beginning with the arrival of Columbus.

42. Demonstrate a knowledge of the indigenous cultures of the Americas.

43. Demonstrate an ability to name and discuss historic events and persons in the colonial and independence eras.

44. List causes and effects of the Civil War.

45. Display an understanding of U.S. expansion, including 'manifest destiny' and land purchases.

46. Display a basic understanding of events in the Americas from the 1900s to the present including the Depression,World Wars, Industrial Age, growth of labor unions, Vietnam War Civil Rights Movement, presidential elections and the Gulf War.

47. Display a basic understanding of famous people shaping history including Plato, Socrates, Hernan Cortez, Columbus, Simon Bolivar, Hitler, Thomas Jefferson, Washington, Kennedy, M.L. King, Malcolm X and others.

48. Display an understanding of some basic concepts in economics, including inflation, supply and demand, money management, interest rates and recession.

49. Demonstrate a basic understanding of the United States' form of government and political system.

50. Display a basic understanding of sociology and ethnology.

SCIENCE:

51. Display a basic understanding of the universe, solar system and the formation of the earth.

52. Display a basic understanding of the constitution of the earth, minerals and rocks.

53. Display an understanding of the basic structure of living beings, cells, tissues and organs.

54. Demonstrate an ability to list and expand on the respiratory, digestive, nervous, cardiovascular and reproductive system.

55. Display a basic understanding of the atom, atomic structure and molecules.

56. Display a basic understanding of elements, isotopes and the Periodic Table of the elements.

57. Display a basic understanding of compounds, mixtures, chemical bonding, chemical reactions, acids, bases and salts.

58. Display a basic understanding of work, heat, energy, power, Newton's Laws of Motion and different kinds of machines.

59. Display a basic understanding of electricity and magnetism.

60. List some of the environmental and health issues of the day.

Objective	Lesson Plans	Material
1. Demonstrate an ability to multiply by tens, hundreds, thousands using 2 or 3 digits and solve word problems using multiplication	interactive exercises to practice multiplication problems, drills of multiplication tables, sheets to practice all the mentioned multiplication exercises	flash cards of multiplication tables, Silver Burdett's Matemáticas Critical Thinking Activities Number Power 1, Mathematics Book A ,by Anna U. Chamot and J.Michael O'Malley
2. Divide by 1 digit, 2 digits with remainders, horizontally and solve problems using division	interactive exercises in division; sheets to practice division; learner-generated problems and sheets from work books; games using dice and flash cards with numbers	M.C.T.A., N.P. 1, M.B.*, flash cards with numbers and a dice with different functions
3. Display an understanding of measures of length, weight liquid and time by adding, subtracting, multiplying and dividing using Metric & English units of measurement	interactive exercises in measurement; drills on remembering units of measurements; sheets from workbooks; games to review formulae; bingo games	flash cards, M.C.T.A., N.P., M.B., Math Skills that Work Book 2, bingo sheets
4. Measure the area and perimeter of a circle, rectangle, triangle andthe volume of 3-dimensional objects	drills to practice the formulae; interactive exercises to do problems in area and perimeter; sheets from books to practice,concentration games drills to practice the formulae; interactive exercises to solve volume problems; apply in real-life/work situations	N.P.4,flash cards, graph paper, M.B. and M. S. T. W. Book 2., circular/rectangular cardboard pieces 3 dimensional objects
5. Add, subtract, multiply and divide using fractions	interactive exercises using visual aids and books; drills on reducing and enlarging fractions, L.C.M. and G.C. F.; word problems from books and learner-generated; sheets from books to practice about real-life /work situations	N.P. 2 ,6, colored paper, Kenworthy flash cards, M.B. and M.S.T.W. Book 2, GED en Español by Arco practice sheets

	Objectives	Lesson Plans	Materials
6.	Add, subtract, multiply and divide using decimals	interactive exercises and drills on place value; drills on decimals; word problems learner -generated and from books that are workplace/real-life based	graph paper, M.B., N.P. 2 , M.S.T.W. Book 2, GED en Español
7.	Display an understanding of percentages	interactive exercises on percentages using work/real life examples, drills on percentages	graph paper, N.P. 2, M.S.T.W. Book 2, GED en Español
8.	Alter fractions to decimals, decimals to percentages and percentages to fractions	interactive exercises and drills in conversions; word problems learner-generated and from books that are work/real life based; bingo drills	graph paper, M.B., N.P. 2 , M. S. T. W. Book 2, GED en Español
9.	Demonstrate an ability to solve word problems dealing with whole numbers fractions, decimals and percentages	interactive exercises to discuss vocabulary and comprehension, drills and student-generated word problems	N.P.6, M. C. T.A., GED en Español
10.	Display an understanding of basic pre-algebra, including multiples, negative and positive numbers and substitution of numbers for variables	interactive exercises to discuss and practice arithmetic operations with variables, multiples, negative, positive numbers	N.P.3,GED en Español, Algebra
11.	Demonstrate an ability to perform basic addition, subtraction, multiplication and division using variables	interactive exercises to practice basic algebra, drills on the above	N.P. 3, GED en Español, Math Matters for Adults
12.	Demonstrate an ability to simplify algebraic expressions and factorize polynomials	interactive exercises and drills on simplifying expressions, order of operations, factorizing binomials and trinomials	N.P.3, GED en Español, Algebra

Objective	Lesson Plans	Materials
13. Demonstrate an ability to solve basic algebraic equations	interactive exercises/drills on simple,quadratic equations, applying equations to solve unknowns	N.P.3, GED en Español, Algebra
14. Demonstrate an ability to solve basic geometric problems	interactive exercises/drills in angles and polygons using visual aids	Math Matter for Adults, paper cut outs, protractor
15. Demonstrate an ability to read and solve problems dealing with charts and graphs	interactive exercises to learn to scan information on rows and columns, different types of graphs, information gap exercises, interpret information in charts and graphs	newspaper charts/graphs, work related charts/graphs, GED en Español
16. Display an understanding of ratio and proportion	interactive exercises to compare with fractions, rates,percentages, also cross products, drills on the above	GED Math Problem Solver, GED en Español
17. Demonstrate an ability to solve problems dealing with simple and compound interest	interactive exercises to understand rate, interest, time,principal and solve problems with it, drills on the above, learner-generated/real life problem practice	GED en Español, Math Skills That Work, N.P.2
18. Display an understanding of numbers not having base 10, like binary numbers	interactive exercises to understand powers and roots, also to compare base 10 and base 2	GED en Español

Objective	Lesson Plans	Materials
19. Identify and illustrate use of punctuation, capital letters, prefix, suffix, homonym, antonym, synonym and appropriate usage of similar sounding letters and accents	interactive exercises on punctuation, capitalisation, base words and additions, similar sounding letters, homonyms, synonyms and antonyms, drills on the above, warm-up exercises	GED en Español, Ortografia Basica 1-6
20. Display an understanding of sentence structure, phrase and paragraph	interactive exercises and drills in reading & observing the differences between all 3	GED en Español, Ortografía Basica 1-6
21. Display an understanding of the different parts of speech including noun,pronoun, verb, adjective, adverb and preposition	interactive exercises and drills to practice different parts of speech in a contextual setting and understand the relevance of each part of speech	GED en Español
22. Discuss and identify different types of articles; narrative, descriptive and dialogue; name principal characteristics of a story, article in a newspaper, novel, letter and an essay	interactive exercises discussing the different forms of writing as a pre-writing exercise, also practice getting the main idea of a passage during reading exercises to aid in writing cogent passages	GED en Español, Easing into Essays
23. Demonstrate an ability to read passages, comprehend main ideas and vocabulary words	interactive exercises on reading different passages to share and discuss main ideas; drills and warm-up exercises on vocabulary words	GED en Español, articles from newpapers, books & magazines
24. Display an ability to solve critical thinking exercises and get the main idea in a reading/ comprehension passage utilizing skimming & scanning techniques	interactive exercises and drills to practice critical thinking skills using learner generated scenarios as well; interactive exercises and drills to be familiar with skimming and scanning passages for critical information	GED en Español, learner-generated stories, articles from newspapers & magazines

Objective	Lesson Plans	Materials
25. Display an ability to detect errors in sentences involving punctuation, verb sequencing and spelling	warm-up interactive exercises to detect errors in sentences involving punctuation, verb sequencing and spelling	GED en Español, learner-generated sentences and sentences from books, newspapers & magazines
26. Identify meaning of words by context or by identifying the base word	warm-up/interactive exercises using word lists or in context, matching exercises to pair word with base word	GED en Español, words generated during class exercises
27. Demonstrate an ability to use a dictionary for meaning and pronunciation	interactive exercises and drills to find words in a dictionary, line-ups/drills to practice alphabetization, sound-symbol matching exercises	Dictionary in Spanish
28. Distinguish fact from opinion and display an understanding of deduction and inference	interactive exercises and discussions on reading passages to distinguish fact from opinion, deduction and inference	GED en Español, articles from books, newspapers & magazines
29. Identify figurative language like allegory, simile, hyperbole & irony in a passage	group discussions on figures of speech, vocabulary practice in the form of interactive exercises using passages from literature	GED en Español, articles from newpaper, books & magazines
30. Distinguish and interpret a poem, prose and drama passage	group discussions after reading a poetry/ prose/ drama passage to interpret and distinguish, also encourage learners to write prose, drama, poetry pieces to carry out interactive discussions	GED en Español, passages from books, newspapers & magazines, learner-generated writings
31. Demonstrate an ability to discuss and evaluate a passage	interactive exercises as a follow-up to #29	GED en Español,passages from books, newspapers, magazines,learner-generated writings
32. Display an understanding of writing from a premise to a conclusion and sequencing and elaborating ideas	group exercises on cluster method, using pictures to create LEA writing, using op-ed passages to encourage learners to go from a premise to conclusion	GED en Español, newpaper articles, pictures
33. Demonstrate an ability to edit a written passage	interactive exercises and drills editing a reading passage	GED en Español, articles from newspapers & magazines

Objective	Lesson Plans	Materials
34. Display an ability to read and draw maps, cardinal points, time zones, longtitude and latitude; also recognize different scales	interactive exercises to practice map-reading skills, locate countries knowing their latitudes and longtitudes, drawing of maps using different scales, don't get lost games	newspaper pictures of maps, maps of the Americas, GED en Español
35. Differentiate between city, county, state, country, continent and display an understanding of population and density using a map	interactive exercises to understand sizes and divisions using examples, map-reading skills	GED en Español, newspaper pictures of maps with population densities, maps of the Americas
36. Differentiate classes of information in maps with historical, political, climatalogical, economic or topographical data	interactive exercises to practice new vocabulary & to practice the different kinds of data	GED en Español, pictures of maps in newspapers, maps of the Americas
37. Display an understanding of basic concepts in geography including terms like,`lake', `laguna', `oasis' and `valley'	interactive and visual exercises to understand common terms in physical geography	GED en Español, visual models or pictures of these terms, newspaper pictures
38. Demonstrate an ability to list and recognize countries and their capitals on a map; mainly the Americas	pair/ group activities to quiz one another on countries and capitals, memory games, also practicing skills on a map	GED en Español,maps of the Americas, flash cards
39. Display an ability to interpret line, bar and pie graphs and to classify relevant information	interactive exercises to understand information on the different graphs, visual aids to illustrate these graphs, learner -generated information expressed graphically	GED en Español, colored paper, real-life issues and learner-generated information, markers
40. List important events in history starting with the great civilizations, including the fall of the Roman Empire, colonial powers and the Industrial Revolution	interactive exercises with time-lines using chronological events in the learner's lives as examples & then extrapolating to events in history, drills and warm-ups on the above	GED en Español, Historia y Geografí´a de America

Objective	Lesson Plans	Materials
41. Demonstrate a knowledge of important events and relevant vocabulary in American history beginning with the arrival of Columbus	interactive time-line exercises using learner-generated time-lines as examples, drills and warm-ups on the above	GED en Español, H. y G. de A.
42. Demonsrate a knowledge of the indigenous cultures of the Americas	interactive exercises discussing the cultures and civilizations of the mayas, aztecs, incas and the Native Americans of North America	GED en Español, H.y G. de A.
43. Demonstrate an ability to name and discuss historic events and persons in the colonial and independence eras	interactive time-line exercises and drills to discuss events in this era, interactive exercises to discuss persons, bingo exercises	GED en Español, H.y G. de A.
44. List causes and effects of the Civil War	interactive exercises about the Civil War and slavery, bingo exercises to practice relevant vocabulary	GED en Español, H.y G.de A., bingo sheets
45. Display a basic understanding of U.S. expansion, including 'manifest destiny' and land purchases	interactive exercises to learn new vocabulary and discuss 'manifest destiny' and the consequent land purchases; group discussions on current results of this policy	GED en Español, newspaper articles on related topics, H.y G.de A.
46. Display a basic understanding of events in the Americas from the 1900s to the present including the Depression, World Wars, Industrial Age, growth of labor unions, Vietnam, War,Civil Rights Movement, presidential elections and the Gulf War	interactive exercises to learn new vocabulary and time-line exercises on the events; group discussions on the results of these events in current day politics	GED en Español, newspaper articles on related topics, H.y G.de A.
47. Display a basic understanding of famous people shaping history including Plato, Socrates,Hernan Cortez,Columbus, Simon Bolivar, Hitler,Thomas Jefferson, Washington, J.F.Kennedy, M.L.King ,Malcolm X and others	interactive exercises to learn the names and and important events associated with the people, bingo/memory games, time-line exercises; discussions on the influence of their philosophies in current thought	GED en Español, H.y G.de A., newspaper articles

Objective	Lesson Plans	Materials
48. Display an understanding of some basic concepts in economics,including inflation, supply and demand, money management, interest rates and recession	interactive exercises to practice the new vocabulary	GED en Español, related newspaper articles
49. Demonstrate a basic understanding of the United States' form of government and political system	interactive exercises and drills to learn the basic furnctions of the 3 forms of the government, vocabulary practice	GED en Español, newspaper articles , flash cards
50. Display a basic understanding of sociology and ethnology	interactive exercises to learn some basic facts about racism, classism, social issues of the day and a basic idea about different ethnic races	GED en Español,newspaper articles, flash cards

Objective	Lesson Plans	Materials
51. Display a basic understanding of the universe, solar system and the formation of the earth	interactive exercises to understand some basic ideas about earth, planets & stars using visual aids	GED en Español, La Ciencia, models of the planets etc., pictures and newspaper articles
52. Display a basic understanding of the constitution of the earth, minerals and rocks	interactive exercises about the fundamentals of geology, using visual aids	GED en Español, La Ciencia, models & pictures, newspaper articles
53. Display an understanding of the basic structure of living beings, cells, tissues and organs	interactive exercises about the cell, related subjects, visual aids used in memory games, bingo games for vocabulary practice, including photosynthesis	GED en Español, La Ceincia, models &pictures, newspaper interactive exercises using visual aids
54. Demonstrate an ability to list and expand on respiratory,digestive, nervous, cardiovascular & reproductive systems	interactive exercises to understand the various systems, practice vocabulary	GED en Español,La Ciencia, models & pictures
55. Display a basic understanding of the atom,atomic structure and molecules	interactive exercises using visual aids to conceptualize the different models of the atom, protons, nucleus,electrons	GED en Español, La Ciencia, pictures,models
56. Display a basic understanding of elements,isotopes and the Periodic Table of elements	interactive exercises to comprehend a basic understanding of elements and the relationships between them, interactive exercises on isotopes and chemical formula	GED en Español, La Ciencia, pictures, Periodic Table chart
57. Display a basic understanding of compounds, mixtures, chemical bonding, chemical reactions, acids, bases and salts	interactive exercises to get a basic idea about reactions, difference between compounds, mixtures, various kinds of chemical bonding using models, drills on writing formula for compounds	GED en Español, La Ciencia, pictures, models of compounds, different kinds of bonding, sheets to practice formula of some simple compounds
58. Display a basic understanding of work, heat, energy, power, Newton's Laws of Motion and different kinds of machines	interactive exercises on understanding mechanics, hydraulics, machines uisng pictures & everyday examples of simple machines, practice of new vocabulary like fulcrum, load, power, levers	GED en Español, La Ciencia, pictures, GED Steck Vaughn, models

Objective	Lesson Plans	Materials
59. Display a basic understanding of electricity and magnetism	interactive exercises on magnets, static electricity, earth's magnetism, parallel/series electric circuits	GED en Español, La Ciencia, pictures, magnets, iron filings
60. List some of the environmental and health issues of the day	interactive exercises on environment, ecology, health issues of the day	GED en Español, La Ciencia, newpaper articles, pictures

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